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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/512,107	10/21/2004	Masayuki Suzuki	003854	6433
Pitney Hardin	7590 12/01/200	EXAMINER		
7 Times Square		CROUSE, BRETT ALAN		
New York, NY 10036-7311			ART UNIT	PAPER NUMBER
			1794	
			MAIL DATE	DELIVERY MODE
			12/01/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/512,107	SUZUKI ET AL.				
		Examiner	Art Unit				
		Brett A. Crouse	1794				
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) 又	Responsive to communication(s) filed on <u>01 A</u>	August 2008					
•	This action is FINAL . 2b) ☐ This action is non-final.						
3)	, 						
٥,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
- 4)⊠	Claim(s) 1 and 3-6 is/are pending in the applic	cation.					
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
	6)⊠ Claim(s) <u></u>						
· ·	Claim(s) is/are objected to.						
•	Claim(s) are subject to restriction and/o	or election requirement.					
	on Papers						
9) The specification is objected to by the Examiner.							
10)	The drawing(s) filed on is/are: a) acc	· · · · · · · · · · · · · · · · · · ·					
	Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate				

Application/Control Number: 10/512,107 Page 2

Art Unit: 1794

DETAILED ACTION

1. This office action is in response to the amendment, filed 1 August 2008, which amends claims 1, 3 and 4. Claims 1 and 3-6 are pending.

Response to Amendment

- 2. The rejection(s) of:
 - claims 1 and 3-6 under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement is overcome by the amendment, filed 1 August 2008.
- 3. The rejection(s) of:

claims 1 and 3-6 under 35 U.S.C. 103(a) as being unpatentable over Tada et al., US 6,074,981 are withdrawn.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1 and 3-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Palmgren, US 6,143405, in view of Hayfield, US 4,422,917.

Art Unit: 1794

Palmgren teaches:

<u>Column 8, lines 2-9</u>, teach particles coated with conductive metal oxides and the use of the particles in composites.

<u>Column 10, lines 32-42</u>, teach the particles include various synthetic fibers such as nylon and acrylonitrile-butadiene-styrene.

Column 12, lines 38-42, teach coating thicknesses in the range of 2 to 100 nanometers.

Column 12, lines 5-8, teach the use of the coated particles as a layer for a covering such as flooring.

<u>Column 12, lines 55-59</u>, teach the coating can allow light to be transmitted such that the color of the underlying particle is visible.

Column 13, lines 5-20, teach desired conductivity ranges of the coated particles.

Column 13, lines 22-25, teach depositing the coating by physical vapor deposition.

Preferably, the coating is deposited by sputtering.

<u>Column 13, lines 50-53</u>, teach introducing oxygen when the sputtering target is metallic in order to allow oxidation.

<u>Column 15, lines 8-60</u>, teach composites comprising the coated particles.

Palmgren does not recite:

Palmgren does not recite fractions of titanium oxides in the coating composition.

However, Palmgren teaches desired ranges of conductivity of the oxide coating.

Hayfield teaches:

Column 4, lines 45-65, figure 1, teach the conductivity of TiO_x (titanium oxides).

Statement of Obviousness:

Art Unit: 1794

It would have been obvious to one of ordinary skill in the art to produce a mixture of titanium oxides having a desired conductivity, as in Palmgren, by selecting from the materials of Hayfield a composition having such a conductivity and introducing suitable amounts of oxygen to produce the desired stoichiometry.

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brett A. Crouse whose telephone number is (571)-272-6494. The examiner can normally be reached on Monday - Friday.

Application/Control Number: 10/512,107 Page 5

Art Unit: 1794

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald L. Tarazano can be reached on 571-272-1515. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/B. A. C./ Examiner, Art Unit 1794 /D. Lawrence Tarazano/ Supervisory Patent Examiner, Art Unit 1794